

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/011642

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7	C23C18/18	C23C18/32	C23C18/31	C25D5/48
-------	-----------	-----------	-----------	----------

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7	C23C	C25D
-------	------	------

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 511 614 A (GREESON ET AL) 16 April 1985 (1985-04-16)	1-12, 18-29, 36-38
Y	column 1, lines 58-62; claims 1,5  column 3, lines 26-33 column 4, lines 48-53 column 5, lines 38-43,62-68; example 1	13-17, 30-35
X	EP 0 317 838 A (ANRITSU CORPORATION) 31 May 1989 (1989-05-31)	8-12, 25-29, 36,38
	page 12, lines 42-50; claim 12	
X	US 4 233 107 A (JOHNSON, SR. ET AL) 11 November 1980 (1980-11-11)	8-12, 25-29, 36,38
	claims 1,8	
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*g\* document member of the same patent family

Date of the actual completion of the international search

15 February 2005

Date of mailing of the international search report

22/02/2005

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl.  
Fax: (+31-70) 340-3016

Authorized officer

Gault, N

3

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/011642

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 011, no. 106 (C-414), 3 April 1987 (1987-04-03) & JP 61 253383 A (TOKAI RIKA CO LTD), 11 November 1986 (1986-11-11) cited in the application abstract	8-12, 25-29, 36,39
Y	PATENT ABSTRACTS OF JAPAN vol. 015, no. 227 (C-0839), 10 June 1991 (1991-06-10) & JP 03 068785 A (OKUNO SEIYAKU KOGYO KK), 25 March 1991 (1991-03-25) abstract	8-12, 25-29, 36-39
Y	& DATABASE WPI Section Ch, Week 199123 Derwent Publications Ltd., London, GB; Class M13, AN 129282 & JP 03 068785 A (OKUNO SEIYAKU KOGYO KK) 25 March 1991 (1991-03-25) abstract	8-12, 25-29, 36-39
Y	US 5 718 745 A (ITOH ET AL) 17 February 1998 (1998-02-17) column 2, lines 27-56; claims 1-5,7 column 5, lines 4-33	13-17, 30-34
Y	PATENT ABSTRACTS OF JAPAN vol. 018, no. 128 (C-1174), 2 March 1994 (1994-03-02) & JP 05 311466 A (HASHIMOTO KASEI KK; others: 01), 22 November 1993 (1993-11-22) abstract	35
A	PATENT ABSTRACTS OF JAPAN vol. 015, no. 313 (C-0857), 9 August 1991 (1991-08-09) & JP 03 115583 A (ANRITSU CORP), 16 May 1991 (1991-05-16) abstract	1-12, 18-29, 36,38